

821/653

Attorney's Docket No.: 17456-007009



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : George Phillip Vlasuk et al. Art Unit : 1653
 Serial No. : 09/498,272 Examiner : R. Wax
 Filed : February 4, 2000
 Title : NEMATODE-EXTRACTED SERINE PROTEASE INHIBITORS AND
 ANTICOAGULANT PROTEINS

MAIL STOP AMENDMENT

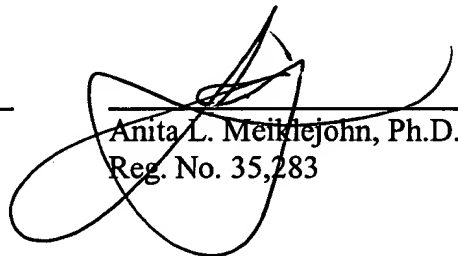
Commissioner for Patents
 P.O. Box 1450
 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicants request consideration of the references listed on the attached PTO-1449 and PTO-892 forms. Under 35 USC §120, this application relies on the earlier filing date of application serial number 08/809,455, filed on April 17, 1997. The following references were submitted to and/or cited by the Office in the prior application and, therefore, are not provided in this application. This statement is being filed before the receipt of a first Office Action on the merits. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: 18 MAY 2005


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LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S
INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

17456-007009

SERIAL NO.

09/498,272

APPLICANT:

George P. Vlasuk et al.

FILING DATE:

2/4/2000

GROUP:

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
	AA	4,458,066	7/3/84	Caruthers, et al.	536	27	
	AB	4,683,293	7/28/87	Craig	530	359	
	AC	4,745,051	5/17/88	Smith, et al.	435	68	
	AD	4,777,242	10/11/88	Nelles	530	351	
	AE	4,808,537	2/28/89	Stroman, et al.	435	6	
	AF	4,812,405	3/14/89	Lair, et al.	435	255	
	AG	4,818,700	4/4/89	Cregg, et al.	435	252.33	
	AH	4,837,148	6/6/89	Cregg	435	172.3	
	AI	4,855,231	8/8/89	Stroman, et al.	435	68	
	AJ	4,857,467	8/15/89	Sreekrishna, et al.	435	255	
	AK	4,879,231	11/7/89	Stroman, et al.	435	172.3	
	AL	4,882,279	11/21/89	Cregg	435	172.3	
	AM	4,885,242	12/5/89	Cregg, et al.	435	68	
	AN	4,895,800	1/23/90	Tschopp, et al.	435	69.3	
	AO	5,002,876	3/26/91	Sreekrishma, et al.	435	69.5	
	AP	5,004,688	4/2/91	Craig, et al.	435	69.3	
	AQ	5,023,236	6/11/91	Edgington, et al.	514	18	
	AR	5,032,516	6/16/91	Cregg	435	172.3	
	AS	5,106,833	4/21/92	Broze, et al.	514	12	
	AT	5,122,465	6/16/92	Cregg, et al.	435	172.3	
	AU	5,135,868	8/4/92	Cregg	435	255	
	AV	5,166,329	11/24/92	Cregg	536	27	
	AW	5,189,019	2/23/93	Palladino et al.	514	12	
	AX	5,204,261	4/20/93	Prevatt, et al.	435	255	
	AY	5,239,058	8/24/93	Vlasuk, et al.	530	524	
	AZ	5,239,059	8/24/93	Zasloff, et al.	530	325	
	BA	5,268,273	12/7/93	Buckholz	435	69.1	
	BB	5,330,901	7/19/94	Prevatt, et al.	435	69.6	
	BC	5,427,937	6/27/95	Cappello, et al.	435	212	
	BD	5,525,477	6/11/96	Hassouna	435	13	
	BE	5,605,671	2/25/97	Lyle, et al.	424	1.41	

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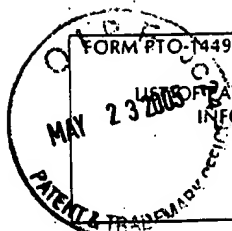
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FORM PTO-1449		ATTY. DOCKET NO. 17456-007009	SERIAL NO. 09/498,272
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		FILING DATE: 2/4/2000	GROUP:

FOREIGN PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
	BF	0,419,099	3/27/91	EPO (Vlasuk, et al.)				
	BG	0,454,372	10/30/91	EPO (Palladino, et al.)				
	BH	0,439,442	7/31/91	EPO (Girard, et al.)				
	BI	0,255,771	2/10/88	EPO (Wydro, et al.)				
	BJ	91/02753	3/7/91	WO/PCT (Rasmussen)				
	BK	96/04377	2/15/97	WO/PCT (Innis)				
	BL	96/04378	2/15/96	WO/PCT (Innis)				
	BM	94/25000	4/29/94	WO/PCT (Cappello et al.)				
	BN	88/09811	12/15/88	WO/PCT (Nexo et al.)				
	BO	96/12021	4/25/96	WO/PCT (Vlasuk et al.)				
	BP	95/12615	5/11/95	WO/PCT (Pritchard)				

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BQ	Aoki, Y., et al., "Effects of Recombinant Human Soluble Thrombomodulin (rhs-TM) on a Rat Model of Disseminated Intravascular Coagulation with Decreased Levels of Plasma Antithrombin" <u>Thrombosis and Hemostasis</u> 71(4):452-455 (1994)	
BR	Babin et al., "The Isoinhibitors of Chymotrypsin/Elastase from <i>Ascaris lumbricoides</i> : The Primary Structure" <u>Arch. of Biochem. and Biophys.</u> 232(1):143-161 (1984)	
BS	Beaucage et al., "Deoxynucleoside Phosphoramidites-A New Class of Key Intermediates for Deoxypolynucleotide Synthesis" <u>Tetrahedron Letters</u> , 22(20):1859-1862 (1981)	
BT	Bernard, et al., "The Serine Protease Inhibitor Family from <i>Ascaris Suum</i> : Chemical Determination of the Five Disulfide Bridges" <u>Arch. Biochem. Biophys.</u> , 303(2):367-376 (1993)	
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BW	Broach, J. et al., "Transformation In Yeast: Development of a Hybrid Cloning Vector and Isolation of the CAN1 Gene" <u>Gene</u> , 8:121-133 (1978)	
BX	Brown, E. et al., "Chemical Synthesis and Cloning of a Tyrosine tRNA Gene" <u>Methods in Enzymology</u> , 68, 109-151 (1979)	
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BZ	Cairns et al., "Antithrombotic Agents in Coronary Artery Disease" <u>Chest</u> 102:456S-481S (1992)	

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FORM PTO-1449

USE OF PATENTS AND OTHER ITEMS FOR APPLICANT'S
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ATTY. DOCKET NO.

17456-007009

SERIAL NO.

69/498,272

APPLICANT:

George P. Vlasuk et al.

FILING DATE:

2/4/2000

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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CB	Cappello et al., "Ancylostoma Factor Xa Inhibitor: Partial Purification and Its Identification as a Major Hookworm-Derived Anticoagulant In Vitro" <u>J. Infect. Diseases</u> , 167:1474-1477 (1993)
CC	Cappello et al., "Ancylostoma caninum anticoagulant peptide: A hookworm-derived Inhibitor of Human Coagulation Factor Xa," <u>Proc. Natl. Acad. Sci. U.S.A.</u> 92:6152-6156 (1995)
CD	Carroll et al., "The Anticoagulant Effects of the Hookworm, Ancylostoma Ceylanicum: Observations on Human and Dog Blood In Vitro and Infected Dogs In Vivo" <u>Thromb. Haemostas.</u> (Stuttgart), 51(2):222-227 (1984)
CE	Carson, "Computerized Analysis of Enzyme Cascade Reactions Using Continuous Rate Data Obtained with an ELISA Reader" <u>Comput. Prog. Biomed</u> 19:151-157 (1985)
CF	Clements et al., "Secretion of Human Epidermal Growth Factor from Saccharomyces Cerevisiae Using Synthetic Leader Sequences" <u>Gene</u> 106:267-272 (1991)
CG	Cohen, "Nonchromosomal Antibiotic Resistance in Bacteria: Genetic Transformation of Escherichia coli by R-Factor DNA" <u>Proc. Natl. Acad. Sci. USA</u> , 69(8):2110-2114 (1972)
CH	Crawford, et al., "Inhibition of Human Blood Clotting By Extracts of Ascaris Suum" <u>J. Parasitol.</u> , 68(6):1044-1047 (1982)
CI	Curtis, <u>Biology Fourth ed.</u> N.Y. Worth Publishers, Inc. pp.500-501 (1983)
CJ	Depicker et al., "Nopaline Synthase: Transcript Mapping and DNA Sequence" <u>J. Mol. Appl. Gen.</u> , 1(6):561- 573 (1978)
CK	Despreaux et al., "The dac A Gene of Bacillus Stearothermophilus Coding for D-Alanine Carboxypeptidase: Cloning, Structure and Expression in Escherichia Coli and Pichia Pastoris" <u>Gene</u> 131:35-41 (1993)
CL	Fiers, et al., "Complete Nucleotide Sequence of SV40 DNA" <u>Nature</u> , 273:113-120 (1978)
CM	Fuster, V. "The Pathogenesis of Coronary Artery Disease and the Acute Coronary Syndromes" <u>New Engl. J. Med.</u> 326(5):310-318 (1992)
CN	Glaser-Wuttke, G., "Pore-Forming Properties of the Adsorption protein of Filamentous Phage fd" <u>Biochem. Biophys. Acta</u> , 985:239-247 (1989)
CO	Glover, "Gene Cloning: The Mechanics of DNA Manipulation" 1-20 (1984)
CP	Goeddel et al., "Synthesis of Human Fibroblast Interferon by E.Coli" <u>Nucleic Acids Res.</u> , 8(18):4057-4074 (1980)
CQ	Gold et al., "Evidence for a Rebound Coagulation Phenomenon After Cessation of a 4-hour Infusion of a Specific Thrombin Inhibitor in Patients with Unstable Angina Pectoris" <u>JACC</u> 21(5):1039-1047 (1993)
CR	Grasberger et al., "High-Resolution Structure of Ascaris Trypsin Inhibitor in Solution: Direct Evidence for a pH-induced Conformational Transition in the Reactive Site" <u>Structure</u> , 2:669-678 (1994)
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CT	Hirsh, J., "Heparin" <u>N. Engl. J. Med</u> 324(22):1565-1574 (1992)
CU	Hitzeman et al., "Isolation and Characterization of the Yeast 3-Phosphoglycerokinase Gene (PGK) by an Immunological Screening Technique" <u>J. Biol. Chem.</u> , 255(24):12073-12080 (1980)

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CV	Holland et al., "The Primary Structures of Two Yeast Enolase Genes" <u>J. Biol. Chem.</u> 256(3):1385-1395 (1981)
CW	Houghten, "General Method for the Rapid Solid-Phase Synthesis of Large Numbers of Peptides: Specificity of Antigen-Antibody Interaction at the level of Individual Amino Acids" <u>Proc. Natl. Acad. Sci.</u> 82:5131-5135 (1985)
CX	Hsiao, C.L. et al., "High-Frequency Transformation of Yeast by Plasmids Containing the Cloned Yeast ARG4 Gene" <u>Proc. Natl. Acad. Sci. USA</u> 76(8):3829-3833 (1979)
CY	Huang et al., "The Molecular Structure of the Complex of the Complex of Ascaris Chymotrypsin/Elastase Inhibitor with Porcine Elastase" <u>Structure</u> 2:679-689 (1994)
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DA	Kasten, B.L., "Specimen Collection", <u>Laboratory Test Handbook</u> , 2nd Edition, Lexi-Comp Inc., Cleveland pp. 16-17 (Edits. Jacobs, D.S. et al. 1990)
DB	Kessler, C. "The Pharmacology of Aspirin, Heparin, Coumarin and Thrombolytic Agents" <u>Chest</u> 99:97S-112S (1991)
DC	Kurz, K.D., et al., "Rat Model of Arterial Thrombosis Induced by Ferric Chloride" <u>Thromb. Res.</u> 60:269-280 (1990)
DD	Lawson et al., "A Model for the Tissue Factor Pathway to Thrombin" <u>J. Biol. Chem.</u> 269(37):23357-23366 (1994)
DE	Levine et al., "Hemorrhagic Complications of Anticoagulant Treatment" <u>Chest</u> 102:352S-363S (1992)
DF	Lidon et al., "Initial Experience with Direct Antithrombin Hirulog, in Unstable Angina" <u>Circulation</u> 88(4):1495-1501 (1993)
DG	Loeb et al., "The Presence of a Substance Inhibiting the Coagulation of the Blood in Ancylostoma" <u>Proc. Pathol. Soc. of Philadelphia</u> , 7(6):173-178 (1904)
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DK	Mann et al., "Blood" <u>Journal of The American Society of Hematology</u> 76(1):1-16 (1990)
DL	Merrifield, "Solid Phase Peptide Synthesis. I. The Synthesis of a Tetrapeptide" <u>J. Amer. Chem. Soc.</u> 85:2149-2154 (1963)
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DQ	Maruyama et al., "Lambda foo: a phage vector for the expression of foreign proteins" <u>Proc. Nat'l. Acad. Sci., USA</u> 91:8273-8277 (1994)

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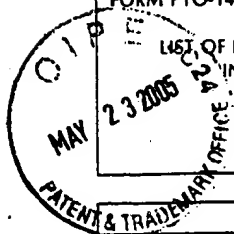
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DU	Oklahoma Medical Research Foundation, "Thrombin-binding polypeptides as antithrombotic agent for artificial organs or other surfaces" <u>Chemical Abstracts</u> 113:18 abstract No. 158738 (1990)
DV	"Principles and Applications for DNA Amplification" <u>PCR Technology</u> (1989) (complete volume)
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DY	Rappaport, S., "Initiation and Regulation of Tissue Factor-Dependent Blood Coagulation" <u>Arteriosclerosis and Thrombosis</u> 12(10):1111-1121 (1992)
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EC	Sambrook et al., "Molecular Cloning, A Laboratory Manual", Second Edition, Volumes 1 to 3, Cold Spring Harbor Laboratory Press (1989)
ED	Sanger et al., "DNA Sequencing with Chain-Terminating Inhibitors" <u>Proc. Natl. Acad. Sci. USA</u> , 74(12):5463-5467 (1977)
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EL	Spellman et al., "Anticoagulant Activity of Dog Hookworm" <u>Am. J. Physiol.</u> 220(4):922-927 (1971)

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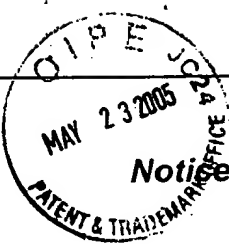
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
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EN	Taylor, "Identification of Protein Sequence Homology by Consensus Template Alignment" <u>J. Mol. Biol.</u> 188:233-258 (1986)
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FA	Jock Friedly, "New Anticoagulant Prompts Bad Blood Between Partner", <u>Science</u> 271:1800-1801 (1996)
FB	May 10, 1996 letter from David Kabakoff to <u>Science</u> ; not published
FC	May 13, 1996 fax from Yale University to Corvas including letter (5/10/96) said to have been sent to <u>Science</u> ; not published
FD	July 16, 1996 e-mail from Science to Jean Ellis noting receipt of 5/10/96 Kabakoff letter
FE	September 17, 1996 e-mail from <u>Science</u> to Jean Ellis noting Science decision to not publish 5/10/96 Kabakoff letter
FF	September 26, 1996 letter from Randall Woods to <u>Science</u> ; not published
FG	April 21, 1995 letter from George Vlasuk to <u>Thrombosis and Hemostasis</u> ; not published

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 Notice of References Cited	Application/Control No. 09/498, 272	Applicant(s)/Patent Under Reexamination VLASUK ET AL.	
	Examiner	Art Unit	

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification	
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	B	US-5866542-A	02-1999	Vlasuk et al.	514	12
	C	US-6090916-A	07-2000	Vlasuk et al.	530	350
	D	US- -				
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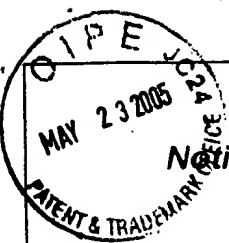
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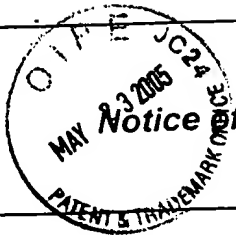
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Applicant(s)

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* DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS
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